Product Data Sheet

Product Name: Yohimbine

CAS No.: 146-48-5

Cat. No.: HY-12715

MWt: 354.44

Formula: C21H26N2O3

Purity: >98%

Solubility: 10 mM in DMSO

Mechanisms:

Pathways: GPCR/G protein; Target: Adrenergic Receptor

Biological Activity:

Yohimbine is a potent and relatively nonselective alpha 2-adrenergic receptor (AR) antagonist, with IC50 of 0.6 μM.

IC50 value: 0.6 μM [1]

Target: alpha 2-adrenergic receptor

in vitro: Yohimbine inhibits alpha2-receptor antagonist with Ki of 1.05 nM, 1.19 nM, and 1.19 nM for α2A, α2B, α2C, respectively. Yohimbine also inhibits 5-HT1B with Ki of 19.9 nM. Yohimbine acts to block the lowering of cAMP by alpha-2 adrenoceptor agonists. yohimbine actually causes a pronounced lowering of tyrosinase activity. [3]

in vivo: Yohimbine is an antagonist at alpha2-noradrenaline receptors with putative panicogenic effects in human subjects, was administered to Swiss-Webster mice at doses of 0.5, 1.0, and 2.0 mg/kg. Yohimbine potentiates active defensive responses to threatening stimuli in Swiss-Webster mice.[2]...

References:


Caution: Not fully tested. For research purposes only

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